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Assessment and End of the Year Evaluation.

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ABSTRACT

This profile is designed to be a recording sheet for monitoring an individual student's progress throughout the school year. Seventh grade assessment materials and the Strategies for Instruction in Mathematics suggest tasks and questions that can be used for on-going and summative assessment. Directions for use and descriptions of the four levels of performance are presented. It is suggested that teachers record an evaluation (performance level) for each objective that is taught during a particular grading period. Student work, conversations with the student, and observations provide evidence for the evaluation of performance. Evaluations are based on the student's abilities to explain, model, and apply learning. (ASK)



E. Brumback

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Mathematics Seventh Grade

Observation Profile for On-Going Assessment

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and End of the Year

Evaluation

This profile is designed as a recording sheet for monitoring an individual student's progress throughout the school year. The *Strategies for Instruction in Mathematics* suggests tasks and questions that can be used for on-going and summative assessment.

Directions for use:

The four main mathematical goals and the specific objectives from the North Carolina Standard Course of Study are clustered on this profile according to "big ideas." There are six boxes for recording a student's performance level (1, 2, 3, or 4) at each grading period as some school systems have six grading periods, while others have four grading periods. Teachers will use only the boxes needed. The hexagon beside each "big idea" is for the teacher's summative evaluation and will be filled in at the end of the year.

It is suggested that teachers record an evaluation (performance level) for each objective that is taught during a particular grading period; it is not necessary to record an evaluation for objectives that have not been addressed. Student work, conversations with the student, and observations provide evidence for the evaluation of performance. Evaluations are based on the student's abilities to explain, model, and apply learning. Student work folders (or portfolios) will support the evaluation.

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Student Name

Student Name	#QI	Teacher's Name	School	Year
Number Sense, Num	Qoventh Grade Observation Pr Number Sense, Numeration, and Numerical Operations - Spatial	Profile for On-Going Assessment and End of the Year Evaluation Ial Sense, Measurement, and Geometry - Patterns, Relationships, and Functions - Data, Probability, and Statistics	and End of the Year Evaluation rns, Relationships, and Functions - Data, Pro	bability, and Statistics
Descriptions of levels of Performance	Using the real numbers	Applying geometric	Using algebraic reasoning	Using statistical methods
Level IV (Exceeds expectations) • consistent performance beyond grade level • works independently • understands advanced concepts • applies strategies creatively	1.01 Write whole numbers in scientific notation: convert scientific notation to standard form; investigate the uses of scientific notation.	concepts 2.01 Construct perpendicular and parallel lines.	1.08 Analyze and select appropriate operations. In models, strategies and markode to column viocity.	4.01 Interpret and construct histograms.
analyzes and synthesizes shows confidence and nitiative justifies and elaborates responses nakes critical judgements nakes andications and extensions bewond	1.02 Compare and order rational numbers.	2.02 Identify the congruent and supplementary	intentions to you're a variety of multi-step problems using positive rational numbers, integers, and their inverses Use calculators and computers where appropriate.	4.02 Compare and relate bar graphs and histograms.
grade level: applies Level III competencies in more challenging situations	1.07 Use geometric models to develop the meaning of the square of a number and its positive source root:	relationships of the angles formed by cutting parallel lines by a transversal.	3.01 Evaluate algebraic expressions.	4.03 Construct circle graphs using ratios, proportions, and percents.
- exhibits consistent performance - shows conceptual understanding - applies strategies in most situations - responds with appropriate answer or procedure	investigate and estimate square root, checking the results with a calculator.	2.03 Locate, give the coordinates of, and graph plane figures which are the results of translations or reflections in all quadrants of the coordinate plane.	3.02 Model and solve simple equations and inequalities and graph their solutions; use appropriate technology.	4.04 Create, compare, contrast, and evaluate both orally and in writing, different graphic representations of the same data.
needs minimal assistance exhibits fluency and applies learning shows some flexibility in thinking works with confidence recognizes cause and effect	1.03 Model addition, subtraction, multiplication, and division of integers; record.	2.04 Use models to investigate the concept of the Pythagorean Theorem.	3.03 Write or model a simple linear equation or inequality to solve a given problem: use appropriate technology.	4.05 Identify appropriate uses of different measures of central tendency.
relationships applies, models, and explains concepts	1.04 Compute with integers.	2.05 Build models of three-dimensional figures given end, side and top views.	3.04 Write a problem given a simple linear equation or inconsitive	4.06 Recognize and identify misuses of statistical and numerical data.
Level II (Not yet proficient) exhibits inconsistent performance and misunderstandings at times shows some evidence of conceptual understanding has difficulty applying strategies or completing	Using proportional reasoning	2.06 Draw end, side and top views of three-dimensional figures given models:	3.05 Describe, extend,	Determining probabilities
tasks in unfamiliar situations responds with appropriate answer or procedure sometimes. requires teacher guidance frequently reeds additional time, opportunities demonstrates some Level III competencies	1.05 Write and solve proportions.	2.07 Use models to find the surface area of rectangular solids and cylinders.	wide variety of patterns to investigate relationships and solve problems: use appropriate technology.	4.07 Find all possible outcomes of simple experiments using such methods as lists, tree diagrams, frequency distribution tables, and the Findamental Counting Deficients
Level I (Limited performance) • exhibits minimal performance • shows very limited evidence of conceptual understanding and use of strategies • responds with inappropriate answer and/or procedure frameworks	1.06 Estimate and solve problems using ratio. proportion and percent including discounts, taxes, commissions, and simple interest.	2.08 Use models to find the volume of prisms and cylinders. 2.09 Calculate the volume of rectangular		4.08 Compute and apply simple permutations and combinations.
Proceeding Triplering Completes task appropriately and accurately infrequently needs assistance, guidance and modified instruction	2.11 Use proportions to express relationships between corresponding parts of similar figures.	2.10 Recognize the effect on the area and perimeter when one or two dimensions of a plane figure are changed.		of independent events. 4.10 Identify/explain the relationship between experimental results and theoretical probability.
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